HawkEye
Alignment

Featuring ProAlign® Software

HawkEye

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HawkEye Alignment Featuring ProAlign® Software

The HawkEye Alignment System featuring ProAlign® alignment software functions on a Linux operating system. This unique combination enables any shop interested in providing profitable alignment service to do so with a minimal investment.

✓ ProAlign software includes the essential software tools to perform fast, accurate alignments.

✓ The Linux operating system supports ProAlign software with the benefits of a powerful operating system contained in a small, replaceable cartridge.

System Features

✓ Alignment console with 17 in. LCD display.

✓ Full-sized keyboard, sloped for easy use, provides complete control of the alignment procedure.

✓ Hand-held wireless remote control allows operation from anywhere in the bay.

✓ Custom electronics optimized for wheel alignment.

✓ Full-speed USB support.

✓ State-of-the-art, high-speed application processor.

✓ Optional remote indicator aids vehicle adjustment, virtually duplicating bar graph display.

Measurement Capability

✓ Measures camber, caster, toe, thrust angle, SAI, IA, Toe-Out-On-Turns† and Maximum Steering Angle†.

Specification Database

✓ Includes more than 20 years of domestic specifications.

✓ User Specs allows for customizable additions to the database for specific vehicles.

✓ Optional yearly specification and software updates can be made by the user simply by installing a new program cartridge.

Powerful Intel® Processor

✓ Provides high-powered processing with low power consumption

✓ Supports high-quality graphics
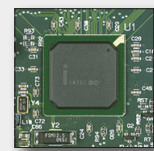
PA121 shown here with optional HS400FC HawkEye™ Sensors.

† May require additional components

HawkEye™ Digital Imaging

High-definition imaging sensors continuously measure wheel target position and orientation, providing the same alignment measurements as conventional sensors.

HawkEye Sensors use multi-dimensional modeling to provide accurate alignment measurements. The operator can use either live plane mode, which uses the targets as a reference plane, or the traditional alignment mode, which uses the rack runways as a reference plane.

Four stationary cameras (one for each wheel) measure the position and orientation of alignment targets.

HawkEye™ Sensor Alignment Targets*

Durability

✓ Corrosion resistant

✓ "Shatterproof" aluminum faceplate - no glass

✓ Impact-resistant housing

✓ Integrated protective bumpers

Ease of Use

✓ No electronics at the wheel

✓ Virtually maintenance-free

✓ No calibration

✓ Lightweight

✓ No cables

Self-Centering Adaptors

Self-centering wheel adaptors cover an extended range, allowing the adaptor to be used for passenger car or heavy-duty truck use. Optional extensions and adaptors are available for specialty and hard-to-mount wheels.
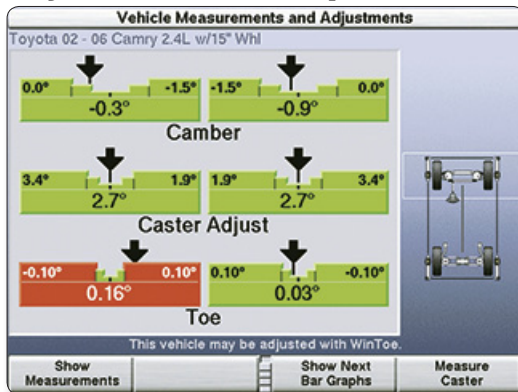
* Patented
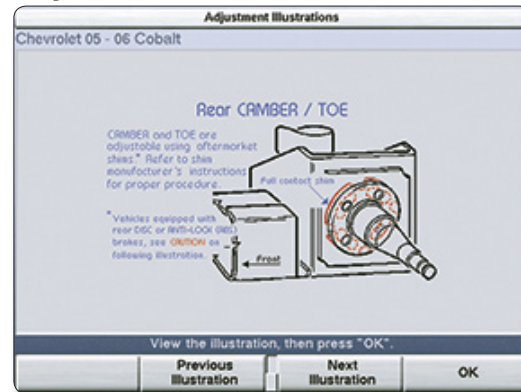
ProAlign® Alignment Software

ProAlign® Alignment Software incorporates key features of the Hunter top-of-the-line systems, ideal for getting into the alignment business economically.
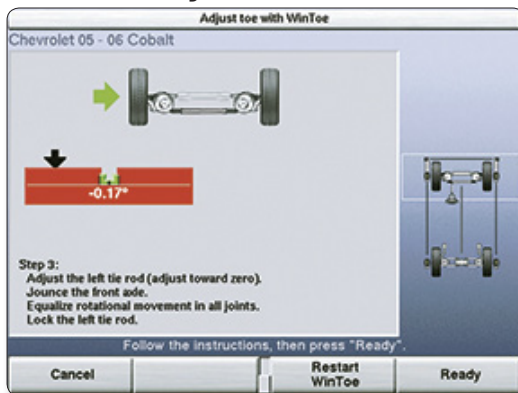
Adjustment Bar Graphs

Adjustment bar graph displays show the amount and direction of adjustment necessary.
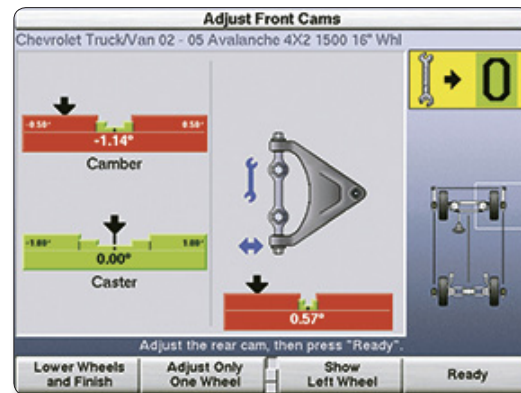
Adjustment Illustrations

Adjustment illustrations provide illustrated diagrams and instructional information of recommended OEM adjustment methods.
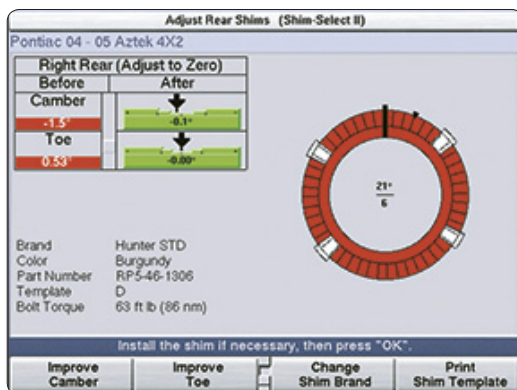
WinToe®* Adjustment Feature

Allows technician to adjust toe without locking the steering wheel. Virtually ensures a straight steering wheel on the first try!

CAMM®* (Control Arm Movement Monitor)

CAMM® cuts adjustment time in half on vehicles with front shims, dual cam and dual slot adjustment. No trial and error required.

Shim-Select®II* Feature

Shows all the information needed for rear shim installation, including templates in actual size and color with required orientation angle, part number and bolt torque specifications.

Work Management
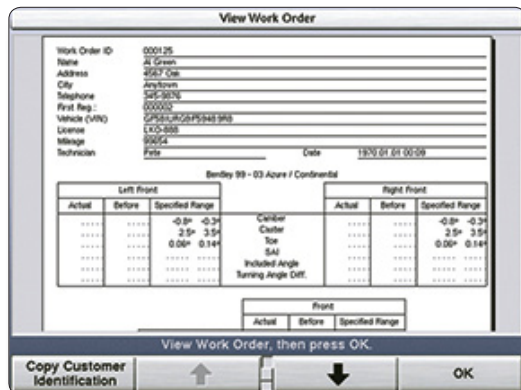
Valuable customer information can be conveniently stored in the database allowing shop personnel to quickly reference previous alignment work orders. Work Management feature requires a USB Flash Drive (not provided).

* Patented

Rapid Rolling Compensation Helps Your Shop Complete More Alignments Per Day

Obtain Measurement Data Faster Than Conventional Sensors
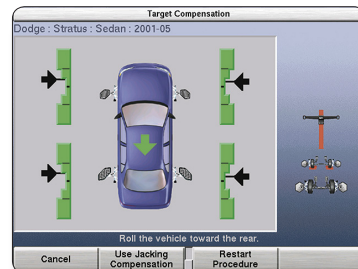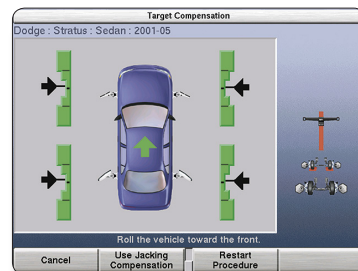

Step 1
Mount alignment targets

Step 2
Roll vehicle back until on-screen indicators turn green

Step 3
Roll vehicle forward and stop on center of turnplate

Step 4
All front and rear camber and toe measurements are immediately displayed

LED Remote Indicator

The optional Remote Indicator allows the technician to easily perform rolling compensation when the console is out of view and provides complete control while making adjustments underneath or at the rear of the vehicle.

HS400FC Hawkeye™ Sensors shown with optional 30-419-1 Icon Remote Indicator


30-419-1 Icon Remote Indicator

Self-Centering Wheel Adaptors

Exclusive Features Provide Ease of Use, Durability and Greater Versatility

1. Extended range fits 10" to 24.5" (254 mm to 622 mm) rims.

2. Reversible adaptor rim studs provide adaptability for steel rims, over wheel cover mounting options and specialty rims with Run-Flat and Flange-Guard tires.

3. Quick-Knob provides fast adjustment of the adaptor's range, allowing it to fit various rim sizes.

4. Adaptor's unique design is able to accommodate a wide variety of wheel configurations and sizes. Simply insert the rim studs into the appropriate slot according to the rim-size range needed.

5. Lightweight, non-flexing adaptors are designed to provide rigidity and stability, yet are easy to handle.

6. Reinforced machined aluminum castings and hard-chromed support rods resist damage and corrosion.
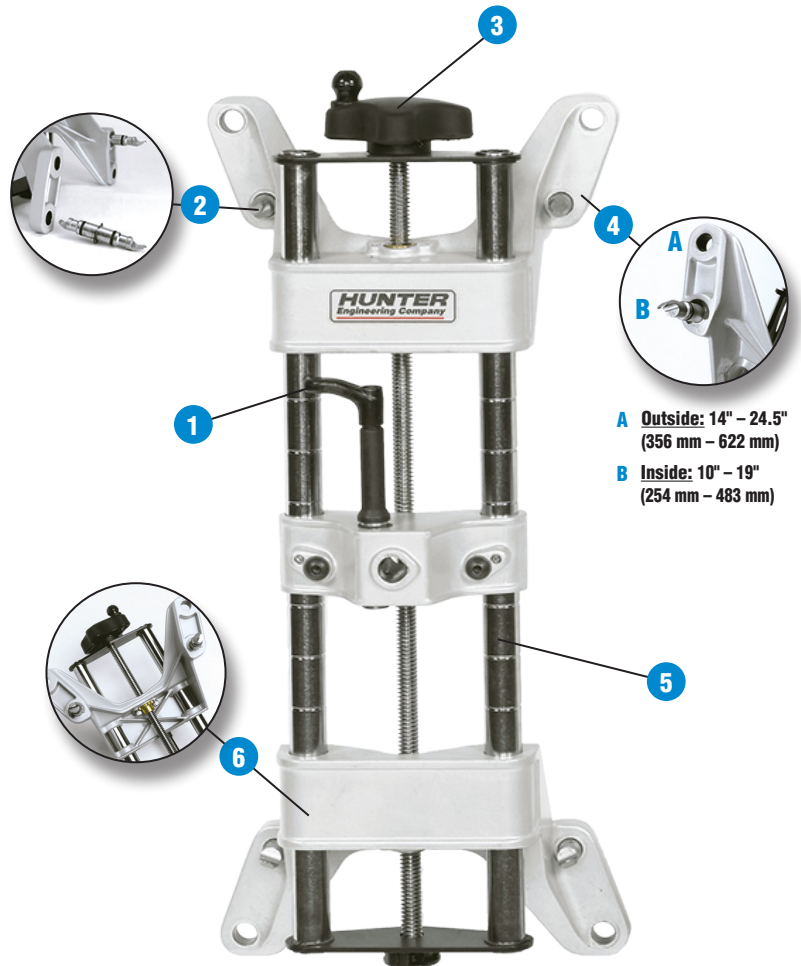
A **Outside:** 14" – 24.5" (356 mm – 622 mm)

B **Inside:** 10" – 19" (254 mm – 483 mm)

175-325-1 Adaptor

20-1789-1 Tire Clamp Adaptor

Clamps effectively fasten wheel adaptors on tires with an outside dimension of 21" (533 mm) to 40" (1016 mm). Ideal for rims without rim lips or when space between tire and rim is limited. Grips onto tire treads and protects alloy wheels from damage. Required for use with PAX System Wheels.

20-1792-1 28" Wheel Adaptor Extensions

Extensions increase the Self-Centering Wheel Adaptor's maximum rim range from 24.5" (622 mm) to 28" (711 mm).

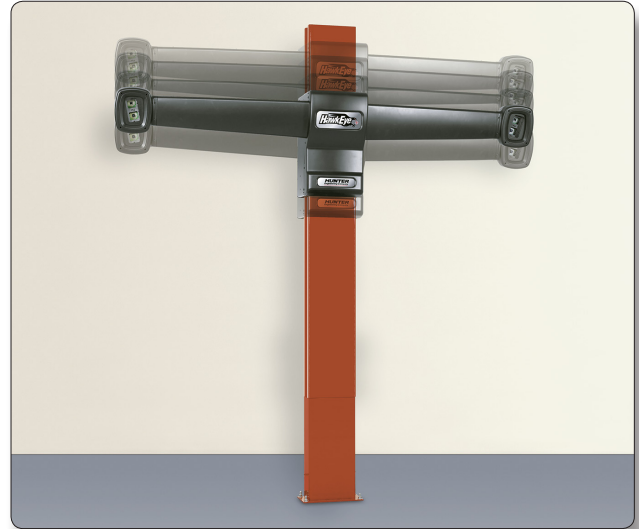(Kit 20-1792-1 contains 16 pieces, 4 for each adaptor.)

HawkEye Sensor Configurations

Space-Saving HawkEye™ Sensors Offer Enhanced Productivity in a Small Footprint

HawkEye sensors can be installed within an inch of a wall, saving space at the front of your bay.

The fixed-column standard configuration HS400FC fits most service bay applications.*

HS400LC provides a vertical camera lift with a full range of travel for additional lift height or to work with the vehicle lowered to the floor.

The HS400WM may also be mounted to the wall or ceiling. When paired with the RX-P Pit In-Ground Scissor Lift, the combination is ideal for drive-through service bays handling vehicles with minimum ground clearance.

The HS400FM Floor-mounted wide sensors are excellent for drive-through bay applications.

Other HawkEye Sensor Configurations Include:

✓ **HS400PS** - Overhead mounted cameras for single-pit-rack applications

✓ **HS400PD** - Overhead mounted cameras for double-pit-rack applications

* Sensors shown with ProAlign Column / Wall Mount Console

Specifications

Models

PA131   Includes mobile cabinet, 17 in. LCD display and color printer

PA121   Includes column / wall mount cabinet, 17 in. LCD display and color printer

Cabinet dimensions:

PA131   59.5 in. (H) x 23 in. (D) x 22.5 in. (W)

PA121   39.5 in. (H) x 17 in. (D) x 19.5 in. (W)

Power Requirements

100-240V, 10A 50-60Hz

Standard Equipment

Infrared Remote Control
Brake Pedal Depressor
Steering Wheel Holder

Options

Icon Remote Indicator	30-419-1
Icon Cordless Remote Indicator†	30-421-1
XF Pod Kit	
(for Cordless or Remote Sensors)	20-2072-1
Standard Turnplate (2 required)	25-140-1
Stainless Steel Turnplate (2 required)	25-129-1

PA100 Compatible Sensors

HS400, DSP506, DSP506XF, DSP508, DSP508XF

HS400 Sensors require ProAlign® version 1.5 or greater software.

† Requires XF Pod Kit 20-2072-1. (Ships standard with DSP506XF or DSP508XF.)

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Because of continuing technological advancements, specifications, models and options are subject to change without notice.

"Before" and "after" measurements can be printed to explain service and record work performed. Screens and rear shim templates can also be printed.

The optional Icon Remote Indicator provides the operator with complete control while making adjustments to the vehicle. Available in conventional or cordless models.

All models include four HawkEye™ Sensor Alignment Targets.

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